

## N Male to SMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink



### RF Cable Assemblies Technical Data Sheet

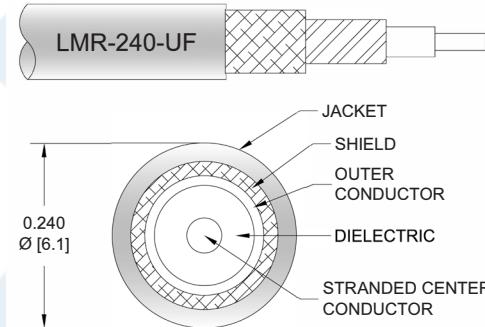
**PE3W01626/HS**

#### Configuration

- Connector 1: N Male
- Connector 2: SMA Male
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01626/HS type N male to SMA male cable using LMR-240-UF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W01626/HS type N male to SMA male cable assembly operates to 5.8 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to SMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink PE3W01626/HS](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.046	0.066	0.095	0.155	0.244	dB/ft
	0.15	0.22	0.31	0.51	0.8	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.113 lbs [51.26 g]

##### Cable

Cable Type LMR-240-UF  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper  
 Dielectric Type PE (F)  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid  
 Jacket Material TPE, Black  
 Jacket Diameter 0.24 in [6.1 mm]

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One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 $\mu$ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Gold
Coupling Nut Plating Specification	100 $\mu$ in minimum	
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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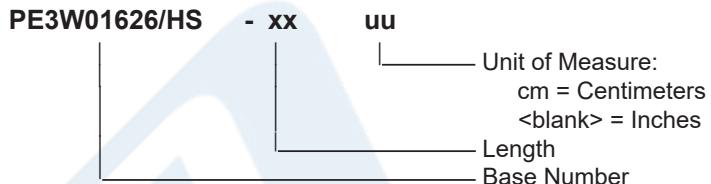


### RF Cable Assemblies Technical Data Sheet

**PE3W01626/HS**

#### How to Order

Part Number Configuration:



Example: PE3W01626/HS-12 = 12 inches long cable  
PE3W01626/HS-100cm = 100 cm long cable

N Male to SMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to SMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink PE3W01626/HS](#)

URL: <https://www.pasternack.com/n-male-to-sma-male-low-loss-cable-using-lmr-240-uf-with-heatshrink-pe3w01626-hs-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE3W01626/HS CAD Drawing

N Male to SMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink

F

E

D

C

B

A

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	05/31/2023	SREITER	AGANWAN

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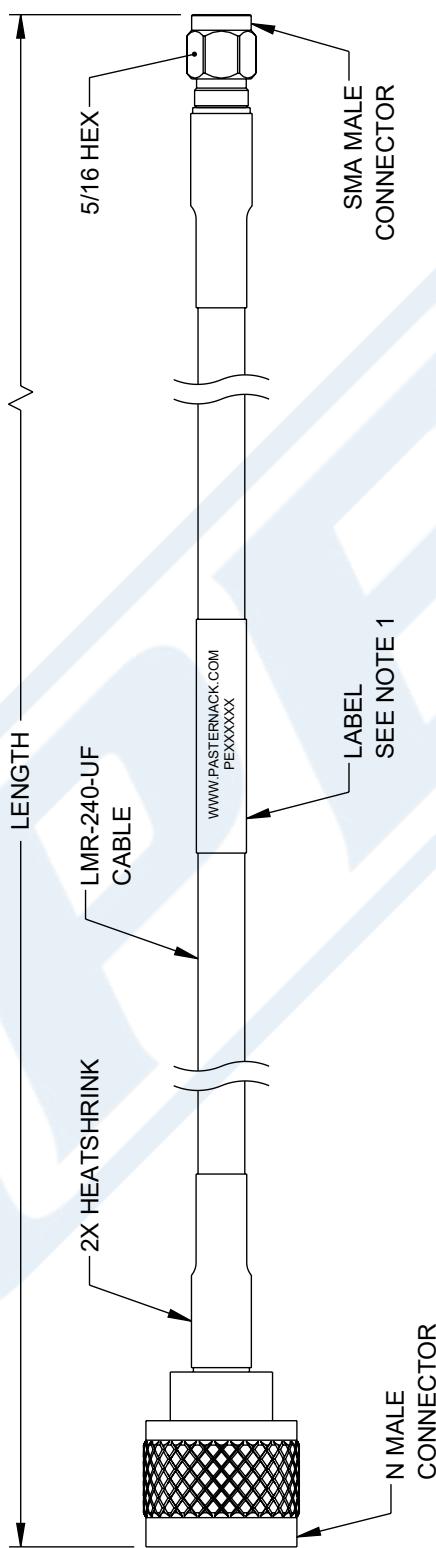
3

4

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REVISION



**NOTES:**

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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Website: www.Pasternack.com Phone: 1.888.727.8376   1.949.261.1920		
<b>UNLESS OTHERWISE SPECIFIED</b> LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS <b>TOLERANCES:</b> $X = \pm 2$ [5] FRACTIONS $XX = \pm 02$ [5] $\pm 1/32$ $XXX = \pm 005$ [13] ANGLES $\pm 1^\circ$ <b>CABLE LENGTH TOLERANCES:</b> $\leq 12$ [305] = $\pm 1$ [25] / -0 $> 12$ [305] -80 [1524] = $\pm 2$ [51] / -0 $> 60$ [1524] $\leq 120$ [3048] = $\pm 4$ [102] / -0 $> 120$ [3048] $\leq 300$ [7620] = $\pm 6$ [152] / -0 $> 300$ [7620] = $\pm 5\%$ / -0	<b>DESCRIPTION</b> <b>N MALE TO SMA MALE LOW LOSS CABLE USING LMR-240-UF COAX WITH HEATSHRINK</b>	<b>SIZE</b> A <b>CAGE CODE</b> 53919 <b>DRAWN BY</b> SREITER <b>ITEM NO.</b> PE3W01626/HS <b>REV</b> A